

## ECS Configuration Change Request

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Page(s)

<b>1. Originator</b> Darryl M. Washington	<b>2. Log Date:</b> 02/12/02	<b>3. CCR #:</b> 02-0125	<b>4. Rev:</b> ?	<b>5. Tel:</b> x0734	<b>6. Rm #:</b>	<b>7. Dept.</b> SE
<b>8. CCR Title:</b> Install/configure NTPv4 client on SGI machines						
<b>9. Originator Signature/Date</b> Darryl M. Washington /s/ 2/13/02			<b>10. Class</b> IN	<b>11. Type:</b> CCR	<b>12. Need Date:</b> 02/13/02	
<b>13. Office Manager Signature/Date</b> Carolyn Whitaker /s/ 2/12/02			<b>14. Category of Change:</b> Initial ECS Baseline Doc.		<b>15. Priority:</b> (If "Emergency" fill in Block 27). Emergency	
<b>16. Documentation/Drawings Impacted:</b> 910-TDA-003. 910-TDA-023, 920-TDX-014			<b>17. Schedule Impact:</b>		<b>18. CI(s) Affected:</b>	
<b>19. Release Affected by this Change:</b> 6A		<b>20. Date due to Customer:</b>		<b>21. Estimated Cost:</b> None - Under 100K		
<b>22. Source Reference:</b> <input type="checkbox"/> NCR (attach) <input type="checkbox"/> Action Item <input type="checkbox"/> Tech Ref. <input type="checkbox"/> GSFC <input checked="" type="checkbox"/> Other:						
<b>23. Problem: (use additional Sheets if necessary)</b> The Network Time Services implementation for the ECS Project requires Network Time Protocol (NTP) Version 4 client installed to operate as the time provider. The SGI client is a freeware NTPv4 client supported by SGI for the IRIX Operating System. NTPv4 must be compiled and installed in the EDF for testing. NTPv4 will be installed on all SGI machines, and implemented as the time provider, replaced the SGI utility "timed". NTPv4 requires an SGI Patch (3911) that must be installed along with the NTP client.						
<b>24. Proposed Solution: (use additional sheets if necessary)</b> Install and compile NTPv4 client from SGI, and install required patch in the EDF (String 3). Upon verification of the operation of the patch and client, the binary will be distributed to all SGI client machines in the EDF (Functionality Lab (String1 & String 2); VATC; PVC) for the NTP implementation.						
<b>25. Alternate Solution: (use additional sheets if necessary)</b>						
<b>26. Consequences if Change(s) are not approved: (use additional sheets if necessary)</b> This procedure will be verification for NTP configuration w/ the Solaris 8 String 2 implementation in the PVC.						
<b>27. Justification for Emergency (If Block 15 is "Emergency"):</b> The implementation of the Solaris 8 String 2 in the PVC will require NTP to be installed in the PVC. This requires DCE DTS to be disabled as the primary time source. Thus all machines need to be able to operate as an NTP client. String 2 implementation is scheduled for the end of February 2002.						
<b>28. Site(s) Affected:</b> <input checked="" type="checkbox"/> EDF <input checked="" type="checkbox"/> PVC <input checked="" type="checkbox"/> VATC <input type="checkbox"/> EDC <input type="checkbox"/> GSFC <input type="checkbox"/> LaRC <input type="checkbox"/> NSIDC <input type="checkbox"/> SMC <input type="checkbox"/> AK <input type="checkbox"/> JPL <input type="checkbox"/> EOC <input checked="" type="checkbox"/> IDG Test Cell <input type="checkbox"/> Other						
<b>29. Board Comments:</b>			<b>30. Work Assigned To:</b>		<b>31. CCR Closed Date:</b>	
<b>32. EDF/SCDV CCB Chair (Sign/Date):</b> Byron V. Peters /s/ 2/13/02 Otai Harley /s/ 2/13/02			<b>Disposition:</b> <span style="border: 1px solid red; padding: 2px;">Approved</span> App/Com. Disapproved Withdraw Fwd/ESDIS ERB Fwd/ECS			
<b>33. M&amp;O CCB Chair (Sign/Date):</b>			<b>Disposition:</b> Approved App/Com. Disapproved Withdraw Fwd/ESDIS ERB Fwd/ECS			
<b>34. ECS CCB Chair (Sign/Date):</b>			<b>Disposition:</b> Approved App/Com. Disapproved Withdraw Fwd/ESDIS ERB Fwd/ESDIS			

## ADDITIONAL SHEET

**CCR #:**                      **Rev:**                      **Originator:** Darryl M. Washington

**Telephone:** x0734                      **Office:** SE

**Title of Change:** Install/configure NTPv4 client on SGI machines

For the Network Time Srvices implementation, SGI client were using the "timed" utility as it time source. The configuration for Time Services called for NTP running on the SUN Solaris client. The timed utility works well in a "pure" SGI environment, but has some limitations in a mixed environment. To provide a cleaner technical solution, the decision was made to pursue implementing an NTP client on the SGI machines. SGI supports a freeware NTP client for IRIX that is compatible with the ECS string of machines. This binary will be compiled an installed on all the ECS SGI machines, and delivered to the DAACs as the Network Time Services implementation for SGI clients. The installation requires an SGI recommended patch (3911) that will be installed with the NTP client. The client binary and the patch will be installed and configured in the EDF (String 3-f3spg01). After verification in the String 3 Lab, rollout of the binary will be as follows:

VATC: t1acg04, t1aqq01, t1aqq02, t1drg01, t1drg03, t1icg03, t1spg01, t1spg03, t1wkg01  
PVC: p0acg05, p0icg01, p0aqq01, p0drg01, p0drg04, p0spg01, p0spg07, p0teg01, p0wkg01

F2:  
F3:  
IDG:

NTP client distribution:  
fw\_ntp-4\_1\_0.tardist  
SGI Patch:  
patchSG0003911.tar